

36. The xyloglucanase of claim 35, which has an amino acid sequence that is at least 95% identical with amino acids 40-559 of SEQ ID NO: 2.

37. The xyloglucanase of claim 36, which has an amino acid sequence that is at least 98% identical with amino acids 40-559 of SEQ ID NO: 2.

38. The xyloglucanase of claim 33, which comprises a sequence of amino acids 36-559 of SEQ ID NO: 2.

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cont
39. The xyloglucanase of claim 33, which comprises a sequence of amino acids 40-559 of SEQ ID NO: 2.

40. The xyloglucanase of claim 39, which consists of a sequence of amino acids 40-559 of SEQ ID NO: 2.

41. The xyloglucanase of claim 33, which has an amino acid sequence that is at least 85% identical with amino acids 40-559 of SEQ ID NO: 4.

42. The xyloglucanase of claim 41, which has an amino acid sequence that is at least 90% identical with amino acids 40-559 of SEQ ID NO: 4.

43. The xyloglucanase of claim 42, which has an amino acid sequence that is at least 95% identical with amino acids 40-559 of SEQ ID NO: 4.

44. The xyloglucanase of claim 43, which has an amino acid sequence that is at least 98% identical with amino acids 40-559 of SEQ ID NO: 4.

45. The xyloglucanase of claim 33, which comprises a sequence of amino acids 36-559 of SEQ ID NO: 4.

46. The xyloglucanase of claim 33, which comprises a sequence of amino acids 40-559 of SEQ ID NO: 4.

47. The xyloglucanase of claim 46, which consists of a sequence of amino acids 40-559 of SEQ ID NO: 4.

48. The xyloglucanase of claim 33, which has an amino acid sequence that is at least 85% identical with amino acids 40-559 of SEQ ID NO: 6.

49. The xyloglucanase of claim 48, which has an amino acid sequence that is at least 90% identical with amino acids 40-559 of SEQ ID NO: 6.

50. The xyloglucanase of claim 49, which has an amino acid sequence that is at least 95% identical with amino acids 40-559 of SEQ ID NO: 6.

51. The xyloglucanase of claim 50, which has an amino acid sequence that is at least 98% identical with amino acids 40-559 of SEQ ID NO: 6.

52. The xyloglucanase of claim 33, which comprises a sequence of amino acids 36-559 of SEQ ID NO: 6.

53. The xyloglucanase of claim 33, which comprises a sequence of amino acids 40-559 of SEQ ID NO: 6.

54. The xyloglucanase of claim 53, which consists of a sequence of amino acids 40-559 of SEQ ID NO: 6.

55. The xyloglucanase of claim 33, which is encoded by a DNA sequence that hybridizes to nucleotides 121-1677 of SEQ ID NO: 1 under medium stringency conditions.

56. The xyloglucanase of claim 55, which is encoded by a DNA sequence that hybridizes to nucleotides 121-1677 of SEQ ID NO: 1 under high stringency conditions, wherein the high stringency conditions are defined as hybridization in 5xSSC at 45°C and washing in 2xSSC at 70°C.

57. The xyloglucanase of claim 33, which is encoded by a DNA sequence that hybridizes to nucleotides 121-1677 of SEQ ID NO: 3 under medium stringency conditions.

58. The xyloglucanase of claim 57, which is encoded by a DNA sequence that hybridizes to nucleotides 121-1677 of SEQ ID NO: 3 under high stringency conditions, wherein the high stringency conditions are defined as hybridization in 5xSSC at 45°C and washing in 2xSSC at 70°C.

59. The xyloglucanase of claim 33, which is encoded by a DNA sequence that hybridizes to nucleotides 121-1677 of SEQ ID NO: 5 under medium stringency conditions.

60. The xyloglucanase of claim 59, which is encoded by a DNA sequence that hybridizes to nucleotides 121-1677 of SEQ ID NO: 5, under high stringency conditions, wherein the high stringency conditions are defined as hybridization in 5xSSC at 45°C and washing in 2xSSC at 70°C.

61. The xyloglucanase of claim 55, which is obtained from the *Bacillus/Lactobacillus* subdivision.

62. The xyloglucanase of claim 61, which is obtained from a species of *Paenibacillus*.

63. The xyloglucanase of claim 62, which is obtained from *Paenibacillus polymyxa*.

64. The xyloglucanase of claim 57, which is obtained from the *Bacillus/Lactobacillus* subdivision.

65. The xyloglucanase of claim 64, which is obtained from a species of *Paenibacillus*.

66. The xyloglucanase of claim 65, which is obtained from *Paenibacillus polymyxa*.

67. The xyloglucanase of claim 59, which is obtained from the *Bacillus/Lactobacillus* subdivision.

68. The xyloglucanase of claim 67, which is obtained from a species of *Paenibacillus*.

69. The xyloglucanase of claim 68, which is obtained from *Paenibacillus polymyxa*.

70. A detergent composition comprising a xyloglucanase of claim 33 and a surfactant.

71. A process for washing a fabric, comprising treating the fabric during a washing cycle of a machine washing process with a washing solution which comprises a xyloglucanase of claim 33.
